

INTERNATIONAL SEARCH REPORT

Rec'd

PTO

03 JUN 2005

International Application No.

PCT/EP 03/14548

537539

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E04F15/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 787 027 A (ALEX WASLEFF) 30 December 1930 (1930-12-30)	1,2,7, 10,11, 23, 26-28,34
Y	the whole document	4,12-15, 17,24
X	PATENT ABSTRACTS OF JAPAN vol. 017, no. 656 (M-1521), 6 December 1993 (1993-12-06) -& JP 05 214802 A (TOSUTEMU UTSUDO WAAKU KK), 24 August 1993 (1993-08-24) abstract	1,2,7, 10,11, 23,24, 28,34
A	---	29-31
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

25 May 2004

Date of mailing of the international search report

04/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Ayiter, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14548

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 015 813 A (NIELSEN HERMAN C) 1 October 1935 (1935-10-01) page 1, right-hand column, line 11 -page 2, right-hand column, line 12; figures 1-5	1, 17, 23, 28, 34
Y		26
A		7, 10
Y	DE 202 07 021 U (BERG & BERG AB KALLINGE) 19 September 2002 (2002-09-19) page 2, line 1 -page 4, line 29; figures 1-6	4, 26
A		1, 2
Y	US 5 117 603 A (WEINTRAUB FRED I) 2 June 1992 (1992-06-02) column 3, line 9 -column 5, line 44; figures 1-8	12-15, 17, 24
A		1, 2, 5-7, 11, 23, 26-31
P, X	WO 03/025307 A (PERVAN TONY ; PERVAN DARKO (SE); VALINGE ALUMINIUM AB (SE)) 27 March 2003 (2003-03-27) page 12, line 36 -page 19, line 37 page 21, line 17 -page 25, line 134; figures 4A-13D	1, 2, 4-12, 15-17, 23, 26-32

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/14548

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 1787027	A	30-12-1930	NONE	
JP 05214802	A	24-08-1993	NONE	
US 2015813	A	01-10-1935	NONE	
DE 20207021	U	19-09-2002	DE 20207021 U1 EP 1338722 A1 US 2003205017 A1	19-09-2002 27-08-2003 06-11-2003
US 5117603	A	02-06-1992	NONE	
WO 03025307	A	27-03-2003	SE 0103130 A WO 03025307 A1 US 2003101674 A1	21-03-2003 27-03-2003 05-06-2003